

### MONTARA WATER AND SANITARY DISTRICT AGENDA

For Meeting Of: January 16, 2025

TO: BOARD OF DIRECTORS

FROM: Clemens Heldmaier, General Manager

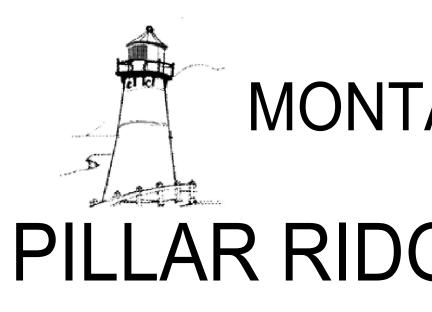
#### SUBJECT: Review and Possible Action Concerning Auxiliary Connection for Pillar Ridge Community

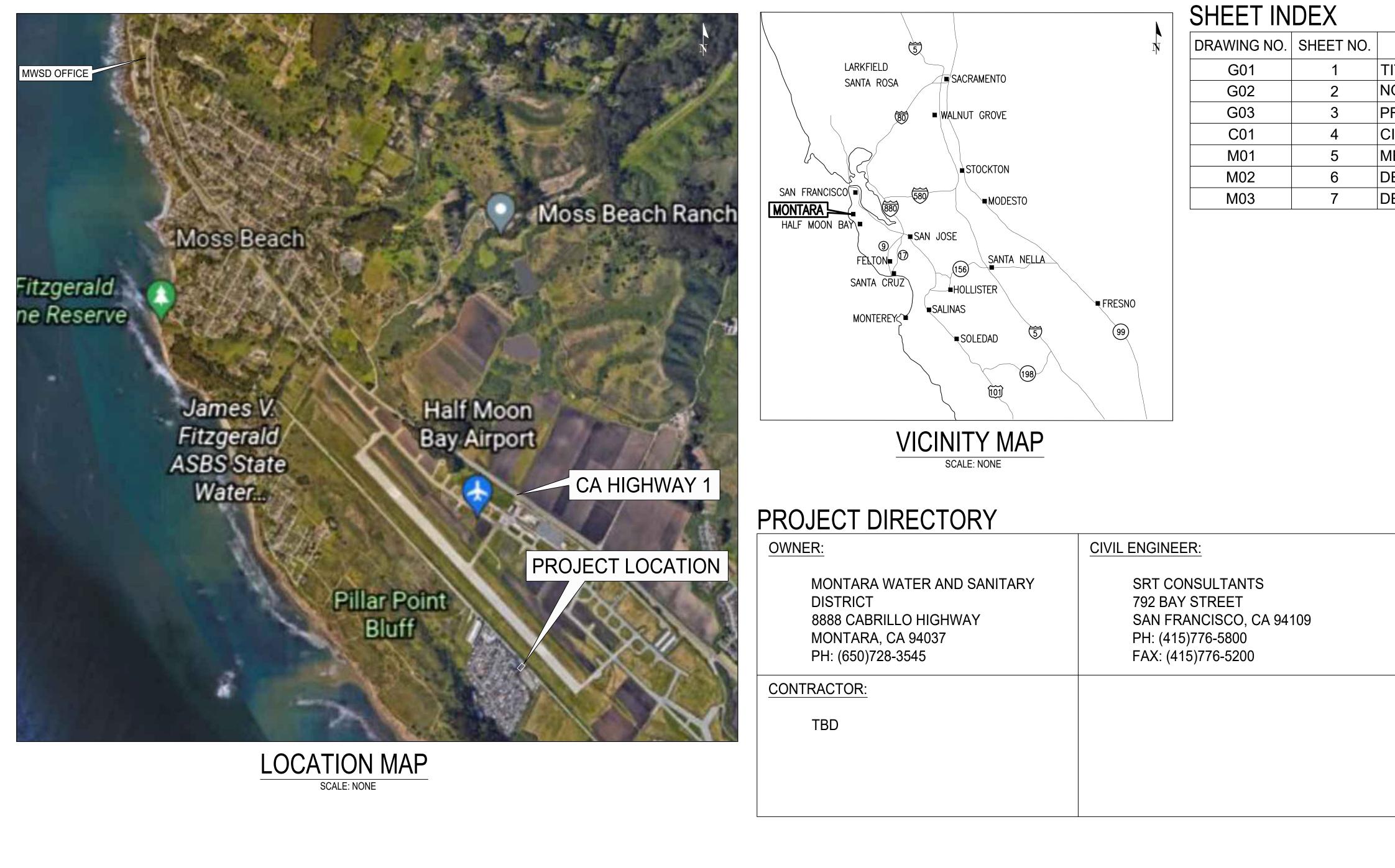
The District Water Engineer completed the design of a new auxiliary connection to the MWSD's 12-inch-diameter water main in the Airport Street for the Pillar Ridge community. When constructed, this project would provide the second means of supplying the Pillar Ridge community with high quality drinking water from the MWSD sources and storage facilities to augment the existing connection to the water main that transects the Half Moon Bay Airport.

This project has been included in the 2024-2025 Water Capital Improvements Program (Water CIP) and is funded. The engineer's opinion of the construction cost is the range of \$85,000 to \$115,000. Upon the Board's approval, staff will advertise the project for public bidding, receive bids, and evaluate them. Staff expects to bring this project back to the Board for approval in March 2025 with construction starting in April-May 2025 and competing by September 2025.

The plans for the project are attached for the Board's consideration.

**Recommendation**: Authorize the General Manager to issue the Auxiliary Connection for Pillar Ridge Project for public bidding, accept and evaluate bids from qualified contractors, and present the apparent responsive and responsible bid for the Board's approval.





# MONTARA WATER AND SANITARY DISTRICT PILLAR RIDGE AUXILIARY CONNECTION PROJECT 100% DESIGN DRAWINGS

## TITLE

TITLE SHEET

NOTES, LEGEND, AND ABBREVIATIONS

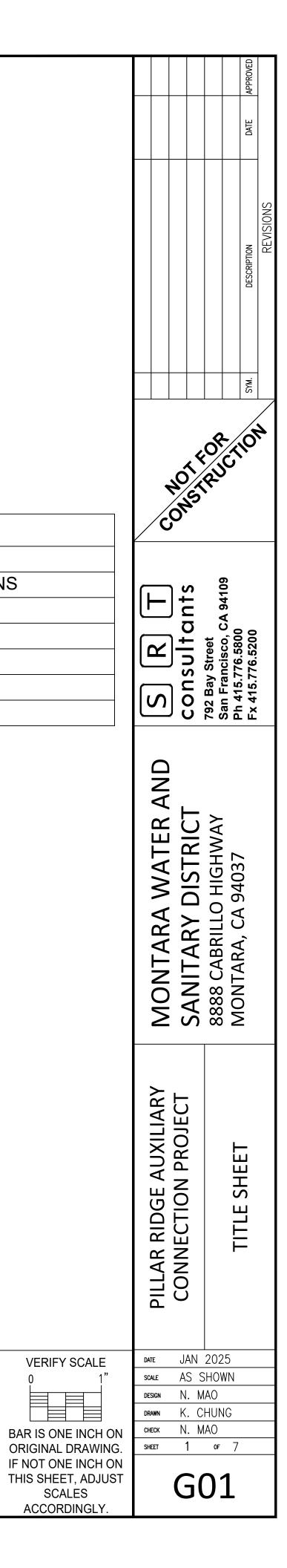
PROJECT SPECIFICATONS

CIVIL SITE PLAN

MECHANICAL PLAN AND SECTION

DETAILS I

DETAILS II



# **GENERAL NOTES**

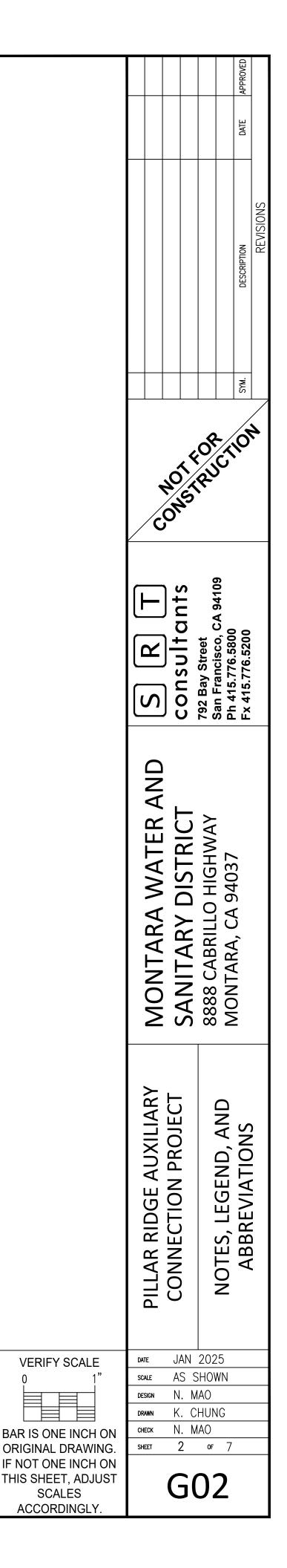
- 1. NOTIFY UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO ANY EXCAVATION. CALL 811.
- 2. CONTRACTOR'S ATTENTION SHALL BE MADE TO THE STANDARD TRENCH DETAIL.
- 3. CONTRACTOR'S SUPERINTENDENT IS REQUIRED TO ATTEND A PRE-CONSTRUCTION WALK-THROUGH MEETING. SUPERINTENDENT IS REQUIRED TO BE ON JOB SITE DURING ALL PHASES OF THE WORK AND CONTRACTOR SHALL NOT REPLACE SUPERINTENDENT WITHOUT PRIOR WRITTEN APPROVAL OF MONTARA WATER AND SANITARY DISTRICT (MWSD). A MOBILE PHONE NUMBER AND A 24-HOUR EMERGENCY NUMBER SHALL BE PROVIDED FOR CONTRACTOR'S SUPERINTENDENT.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING FACILITIES AND EXISTING UTILITIES AND POTHOLING AS NECESSARY TO CONFIRM SIZE, DEPTH, ALIGNMENT, AND MATERIAL OF EXISTING FACILITIES. THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING OR PLANNED UNDERGROUND OR ABOVEGROUND UTILITIES, STRUCTURES, ROADS, PIPELINES, TOPOGRAPHY, ETC., AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE UTILITIES AND STRUCTURES. HOWEVER, MWSD IS NOT RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF SAID INFORMATION.
- 5. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS AND ENVIRONMENTAL LAWS OF ALL JURISDICTIONAL AGENCIES. CONTRACTOR IS ALSO RESPONSIBLE FOR PROJECT SITE SAFETY AND FOR PUBLIC SAFETY INCLUDING TRAFFIC CONTROL, 24 HOURS PER DAY FOR ALL DAYS FROM NOTICE TO PROCEED THROUGH THE NOTICE OF FINAL COMPLETION.
- 6. ALL MATERIALS AND INSTALLATION OF WATER SYSTEM APPURTENANCES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF MWSD AND SAN MATEO COUNTY. CONTRACTOR TO PROVIDE A MATERIALS SUBMITTAL TO MWSD FOR APPROVAL PRIOR TO BEGINNING WORK.
- 7. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGE TO EXISTING PROPERTY AND STRUCTURES RESULTING FROM HIS OPERATIONS DURING CONSTRUCTION AND SHALL REPLACE IN KIND OR BETTER TO THE SATISFACTION OF THE PROPERTY OWNER AND/OR MWSD PRIOR TO THE FINAL PAYMENT. THE CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR RETAINING WALLS AND SHALL BE RESPONSIBLE FOR RESTORING ANY WALL TIE-BACKS DISTURBED DURING EXCAVATION. ANYTHING NOT SPECIFICALLY CALLED OUT ON PLANS TO BE PROTECTED IN PLACE SHALL BE ASSUMED TO REQUIRE PROTECTION IN PLACE.
- 8. ALL FACILITIES TO BE OWNED AND MAINTAINED BY MWSD SHALL BE INSPECTED AND APPROVED BY MWSD, INCLUDING INSPECTION AND APPROVAL OF ALL FITTINGS, PIPES, AND CONNECTIONS PRIOR TO BACKFILLING.
- 9. IF A MAIN BREAK OCCURS WITHIN THE SCOPE OF THE PROJECT, CONTRACTOR SHALL NOTIFY MWSD IMMEDIATELY, AND SHALL BE RESPONSIBLE FOR REPAIRING THE BREAK.
- 10. GENERAL CONSTRUCTION SEQUENCE:
  - MOBILIZE
  - ISOLATE AND DRAIN (E) 12" WATER MAIN
     INSTALL NEW DIDING VALVES VALUES AND OTHER ADDUBTENANCES
  - INSTALL NEW PIPING, VALVES, VAULTS, AND OTHER APPURTENANCES
     DEFECTIVE TEXT AND DISINFECT ALL NEW DIDING
  - PRESSURE TEST AND DISINFECT ALL NEW PIPING
     PRESSURE TEST AND COMPACT TRENCLES
  - BACKFILL AND COMPACT TRENCHES
    RESTORE PAVEMENT SURFACES PER MWSD SPECIFICATIONS
  - DEMOBLIZE
- 11. STAGING AREA TO BE DETERMINED IN THE FIELD WITH MWSD.
- 12. CONSTRUCTION OPERATION TO BE COORDINATED WITH MWSD, PARTICULARLY WITH RESPECT TO USE OF CRANE(S). CRANE(S) SHALL BE CERTIFIED AS OPERATIONAL TO THE SATISFACTION OF LOCAL AND STATE REQUIREMENTS. IT SHOULD BE NOTED THAT THERE ARE EXISTING OVERHEAD POWER LINES IN THE VICINITY OF THE PROJECT LOCATION.
- 13. ALL WATER DISCHARGED FROM THE SITE SHALL MEET ENVIRONMENTAL COMPLIANCE REQUIREMENTS BY THE STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.

## **LEGEND**

## ABBREVIATIONS

— — GAS— —	PG&E NATURAL GAS		
010	FORE NATURAL GAS	(E)	EXISTING
		(E/F)	EXISTING AND FINISHED
— — — — — — — — — — — — — — — — — — —	OVERHEAD ELECTRICAL	AC	ASPHALT CONCRETE
ONE		AGG	AGGREGATE
		APPROX.	APPROXIMATE
	SANITARY SEWER	ARV	AIR RELEASE VALVE
55		BO	BLOW OFF
		CB	CATCH BASIN
W	WATER	CIP	CAST IRON PIPE
		CONC	CONCRETE
		CTE	CONNECT TO EXISTING
T	TELECOMMUNICATION CABLE	DI	DUCTILE IRON
·		DIP	DUCTILE IRON PIPE
		DIA, Ø	DIAMETER
	PROPERTY LINE	EP	EDGE OF PAVEMENT
		FCA	FLANGED COUPLING ADAPTER
		GRD	GRADE
N 4		GV	GATE VALVE
	GATE VALVE, NORMALLY OPEN	BRK	BREAK
		HORIZ.	HORIZONTAL
		HWY	HIGHWAY
		INV	INVERT
	GATE VALVE, NORMALLY CLOSED	LF	LINEAR FEET
		MH	MANHOLE
N I		MAX	MAXIMUM
	CHECK VALVE	MIN	MINIMUM
		MWSD	MONTARA WATER AND SANITARY DI
		(N)	NEW
		NC	NORMALLY CLOSED
>	FLOW ARROW	NIC	NOT IN CONTRACT
		PB	PULL BOX
		PP	POWER POLE
	DROP INLET	PVC	POLYVINYL CHLORIDE PIPE
		PRV	PRESSURE REDUCING VALVE
		SHT	SHEET
		SPECS	SPECIFICATIONS
S	MANHOLE	SS	SANITARY SEWER
		SSMH	SANITARY SEWER MANHOLE
		SST	STAINLESS STEEL
		STA	STATION
$\square$	BALL VALVE	SVC	SERVICE
		T.O.P.	TOP OF PIPE
$\bigcirc$		TBD	TO BE DETERMINED
Ý	PRESSURE GAUGE	TYP	TYPICAL
		UG	UNDERGROUND
		VCP	VITRIFIED CLAY PIPE
		V.I.F.	VERIFY IN FIELD
м	FLOW METER	VERT.	VERTICAL
		VFD	VARIABLE FREQUENCY DRIVE
_		W/	WITH
	PRESSURE REDUCING VALVE	WTR	WATER
	FILOSUNE REDUCING VALVE	VV I IX	
_			
$\frown$			

------ FIRE HYDRANT



DISTRICT

SPECIFICATIONS	b. Or	
I. GENERAL CONSTRUCTION REQUIREMENTS - See MWSD standard specifications sections 8 to 12.	L. Flange in joining	
<ol> <li>2. EARTHWORK - See MWSD standard specification section 13.</li> </ol>		
3. DEMOLITION - See MWSD standard specification section 15.	1. Seal s	
<ol> <li>SURFACE RESTORATION - See MWSD standard specification section 20.</li> </ol>	2. Mech	
5. WATER UTILITY DISTRIBUTION PIPING AND APPURTENANCES	utilize 31	
A. Water Main Installation - see MWSD standard specification section 16-01.	6. PRECAST C	
B. Water Main Disinfection - see MWSD standard specification section 16-06.	A. Design Re	
C. Inspections - see MWSD standard specification section 16-07.	1. Preca installatio	
D. Pressure Testing - see MWSD standard specification section 16-08.	2. Maxir	
E. Ductile Iron Pipes for In-ground Water Mains - see MWSD standard specification section 14-01.A.2.	3. Minin	
F. Fittings for Ductile Iron Pipes - see MWSD standard specification section 14-04.A.	4. Minin	
G. Joints - See MWSD standard specification section 14-02.	B. Submitta	
H. Flexible Couplings - See MWSD standard specification section 14-05.	1. Profe	
I. Fire Hydrants - See MWSD standard specification section 16-02 and local fire protection district standards.	2. The p	
J. Valves	a. Fo	
1. Gate Valves - see MWSD standard specification section 14-07.A	re	
2. Pressure Reducing Valves	b. Fo	
a. Pressure Reducing Valves shall be accurate, pilot-operated regulators capable of holding downstream	c. Su	
pressure to a pre-determined limit. When downstream pressure exceeds the pressure setting of the control	m	
pilot, the main valve and pilot valve close drip-tight.	3. For cu construct	
b. Pressure Reducing Valves shall have:	structure	
i. ductile iron bodies conforming to ASTM A536 ii. cast iron disc retainer & diaphragm washer	calculatic will list th	
iii. bronze disc guide, seat, & cover bearing	4. Subm	
iv. Buna-N rubber disc	dimensio	
v. Nylon-reinforced Buna-N rubber diaphragm	5. Subm	
vi. stainless steel stem, nut, & spring vii. flanges per ANSI B16.42 Class 150 standards.	6. Provid	
c. Control pilots shall have low lead bronze bodies with Type 303 stainless steel trim and Buna-N synthetic	a. Pr	
rubber parts.	b. Co	
d. Pressure Reducing Valves shall be factory coated with fusion-bonded epoxy per NSF/ANSI 61 standards.	Pc ad	
e. Pressure Reducing Valves shall be Cla-Val Model 90-01 Pressure Reducing Valves, or approved equal.	c. Co	
J. Valve boxes - see MWSD standard specification 14-09.	pr sti	
K. Propeller/Turbine Flow Meter		
1. Flow Element	C. Quality A 1. The p	
a. Type: Mechanically coupled propeller/turbine flowmeter.	Certificat	
b. Function/performance:	2. The p	
i. Accuracy: +/- 2% of rate	similar to	
ii. Operating Temperature: Up to 140 F maximum.	D. Delivery,	
iii. Repeatable to +/- 0.25% of range. c. Physical	1. Trans	
i. Propeller or rotor shall be compatible with process fluid in which it is measuring.	2. Do no	
ii. Propeller shafts shall drive the vertical shaft through the magnetic coupling.	3. Conde subsurfac	
iv. Meters shall be flange mounted with ANSI 150 lb. flanged ends that shall be compatible and similar to	E. Concrete	
process pipe. v. Finish: All external surfaces shall have a chemical and corrosion resistant finish.	1. Concrete	
2. Propeller Flow Indicator-Totalizer	following	
a. Type	2. Portla	
i. Mechanical Drive	3. Aggre	
ii. Mounted directly on meter.	4. Wate	
b. Functional/Performance	5. Admi	
i. Accuracy (including flow tube): +/- 2 percent of flow rate within the range specified for each meter size.	a. Ai	
ii. Operating Temperature: 32 to 140 degrees F. iii. Display: full 4" diameter, 250 degree sweep dial with a six digit, straight reading type totalizer and	b. W	
sweep hand test. This indicator dial shall be furnished in GPM, CFS, MGD, or any standard liquid	c. Pc	
measuring units of MWSD's choice. The bonnet, with padlock hasp, shall be o-ring sealed to the meter head.	d. Gi	
iv. The flow element and the flow indicator/totalizer shall be from the same manufacturer and function as	e. Pi	
one working unit.	F. Reinforce	
3. Manufacturers	1. Provid	
a. McCrometer, Inc.	bars or w	
i. McCrometer Model ML04 flanged tube meter with Model CN-062 indicator-totalizer. Register extension	2. Reinfo	
(Model CN 02) as needed.		
(Model CN 02) as needed.	3. Reinfo	

#### Or approved equal.

insulation gasket kit by M&P Flange & Pipe Protection, or approved equal, and shall be provided when ng together two dissimilar metals. Gaskets shall be full-face type with pre-punched holes.

enetrations

I spaces between pipes and pipe openings with link-type seals as specified in the drawings.

- chanical seals shall be NSF 61 certified Model "S61" EPDM LINK-SEAL by Garlock or approved equal and shall 316-stainless assembly hardware.
- CONCRETE STRUCTURES
- Requirements

cast reinforced air-entrained concrete structures designed to ASTM C890, AASHTO HS20 live loading and tion conditions, and manufactured to conform to ASTM C913.

- ximum water table elevation: grade elevation.
- nimum 28-day concrete compressive strength: 5,000 psi.
- nimum buoyancy safety factor: 1.25.

#### tals

fessional Engineer licensed in the state of California shall seal structural design calculations.

e precast concrete structure manufacturer shall submit for Engineer's review:

- For standard precast concrete structures cut sheets showing conformance to project drawings and requirements and to applicable ASTM specifications listed in this section.
- For proprietary precast concrete structures standard plans or informative literature.
- Supporting calculations and design details shall be available upon request. The precast concrete structure manufacturer shall warrant that such products will perform as specified herein.
- custom-made precast concrete structures shop drawings showing complete design, installation, and uction information in such detail as to enable the Engineer to determine the adequacy of the proposed res for the intended purpose. Details of steel reinforcement size and placement as well as supporting design tions, dimensions, and weight of each section shall be included. The drawings shall include a schedule, which the size and type of precast concrete structures at each location where they are to be used.
- mittals shall show locations and dimensions to all penetrations and special embed items. Product sions and thicknesses shall be shown.

mit product datasheet and installation instructions of joint sealants, gaskets, and mechanical seals.

- vide upon Engineer's request:
- Product datasheets and installation instructions of anchors and lifting inserts;
- Copies of material certifications and/or laboratory test reports, including mill tests and all other test data, for Portland cement, blended cement, pozzolans, ground granulated blast-furnace slag, silica fume, aggregate, admixtures, and curing compound proposed for use.
- Copies of test reports showing that the mix has been successfully tested to produce concrete with the properties specified and will be suitable for the project conditions. Such tests may include compressive strength, plastic air content, temperature of freshly mixed concrete, and slump of freshly mixed concrete.

#### Assurance

precast concrete manufacturer shall be certified by the National Precast Concrete Association's Plant ation Program prior to and during production of the structures for the Work.

precast concrete manufacturer shall have been in the business of producing precast concrete products to those specified for a minimum of five (5) years.

- y, Storage, and Handling
- nsport and handle precast concrete units with equipment designed to protect units from damage.
- not place concrete units in position to cause overstress, warp or twist.

duct operations not to interfere with, interrupt, damage, destroy, or endanger integrity of surface or face structures or utilities, and landscape in immediate or adjacent areas.

crete shall be a uniform mix of quality materials listed below. Mix proportions shall be determined by ng the standards in ACI 318.

tland Cement: ASTM C150, Type I, II, III or V

#### gregates: ASTM C33.

ter: Clean and free of deleterious substances in amounts harmful to concrete or embedded metals.

#### nixtures:

- Air-entraining: ASTM C260
- Water reducing, retarding, accelerating, high range water reducing: ASTM C494
- Pozzolans, fly ash and other mineral admixtures: ASTM C618
- Ground granulated blast furnace slag: ASTM C989
- Pigments: Non-fading and lime-resistant
- rcement and Connection Materials

vide all reinforcement, accessory, and connection materials required. Concrete reinforcement shall be steel welded wire fabric, or a combination thereof

#### nforcing Bars: ASTM A615.

nforcing Wire: ASTM A82.

Ided Wire Fabric: ASTM A185.

- 5. All metal items (plates, angles, etc.) embedded in concrete shall be ASTM A36 structural steel.
- G. Grout and Mortar

1. Cement grout: Portland cement with enough water for the required strength and sand for proper consistency. May contain mineral or chemical admixtures, if approved by Engineer. 2. Non-shrink grout: Premixed, packaged expansive and non-expansive shrink-resistant grout. 3. Repair mortar and an epoxy bonding agent may be used to repair minor surface damage to precast sections. Proposed repair products shall be submitted to Engineer before use, and shall be installed per the manufacturer instructions. 1. Include a continuous watertight seal on the concrete base and between successive precast structure sections, which meets the following standards: i. Rubber Gaskets: ASTM C443 ii. Preformed Flexible Joint Sealants: ASTM C990 iii. Elastomeric Joint Sealants: ASTM C920 iv. Exterior Sealing Bands: ASTM C877. I. Structure Frame and Cover 6. Structure frame and cover shall be A36 Steel to be hot dip galvanized after fabrication. NOTFORTION ' 7. Frame and cover designed for H20 loading. J. Assemblies 1. Forms for manufacturing precast concrete structures shall be of the type and design consistent with industry standards. They should be capable of consistently providing uniform products and dimensions. Forms shall be constructed so that the forces and vibrations to which the forms will be subjected can cause no product damage. Forms shall be cleaned of concrete build-up after each use. Form release agents shall not be allowed to build up on the form casting surfaces. 2. Reinforcement: cages of reinforcement shall be fabricated either by tying the bars, wires or welded wire fabric into rigid assemblies. Reinforcing shall be positioned as specified by the design and so that the concrete cover S ||conforms to ACI 318 requirements. The tolerance on concrete cover shall be one-third of that specified but not nt 94, more than 1/2 inches. Concrete cover shall not be less than 1/2 inches. σ 3. Embedded Items shall be positioned at locations specified in the design documents. Inserts, plates, weldments, Street R lifting devices and other items to be imbedded in precast concrete products shall be held rigidly in place so that they do not move significantly during casting operations. CO San I 58an 1 5792 E 1. Concrete shall be deposited into forms as near to its final location as practical. The free fall of the concrete shall be kept to a minimum. Concrete shall be consolidated in such a manner that segregation of the concrete is minimized and honeycombed areas are kept to a minimum. Vibrators used to consolidate concrete shall have frequencies and amplitudes sufficient to produce well consolidated concrete.  $\square$ Z 2. Recommendations for cold weather concreting are given in detail in Cold Weather Concreting reported by ACI Committee 306. Adequate equipment shall be provided for heating concrete materials and protecting concrete く during freezing or near-freezing weather. All concrete materials and all reinforcement, forms, fillers, and ground WATER DISTRICT DISTRICT DIGHWAY 94037 with which concrete is to come in contact shall be free from frost. Frozen materials or materials containing ice shall not be used. In cold weather the temperature of concrete at the time of placing shall not be below 45°F. Concrete that freezes before its compressive strength reaches 500 psi shall be discarded. 3. Recommendations for hot weather concreting are given in detail in Hot Weather Concreting reported by ACI  $\square$ σ Committee 305. During hot weather, proper attention shall be given to ingredients, production methods, handling, IONTARA MONTARA SANITARY [ 8888 CABRILLO MONTARA, CA Ο placing, protection, and curing to prevent excessive concrete temperatures or water evaporation that could impair required strength or serviceability of the member or structure. The temperature of concrete at the time of placing shall not exceed 90°F. 1. Curing by Moisture Retention: moisture shall be prevented from evaporating from exposed surfaces until adequate strength for stripping is reached. 2. Surfaces that will be exposed to weather during service shall be cured as above a minimum of 3 days. Forms shall be considered effective in preventing evaporation from the contact surfaces. If air temperature is below 50°F the curing period shall be extended as required by the Engineer. 3. Curing with Heat and Moisture: concrete shall not be subjected to steam or hot air until after the concrete has RIDGE AUXILIARY ECTION PROJECT SPECIFICATION attained its initial set. Steam, if used, shall be applied within a suitable enclosure, which permits free circulation of the steam. If hot air is used for curing, precautions shall be taken to prevent moisture loss from the concrete. The temperature of the concrete shall not be permitted to exceed 160°F. These requirements do not apply to products cured with steam under pressure in an autoclave. 4. Products shall not be removed from the forms until the concrete reaches the compressive strength for stripping required by the design. If no such requirement exists, products may be removed from the forms after the final set of concrete provided that stripping damage is minimal. 5. Products shall not be shipped until they are at least 5 days old, unless it can be shown that the concrete strength PROJECT has reached at least 75% of the specified 28-day strength, or that damage will not be caused which will impair the PILLAR performance of the product 1. Suitable backfill material shall be placed after concrete in structure has reached its required compressive strength and flexural strength, never before 14 calendar days after initial concrete placement. 2. Backfill material shall be placed simultaneously on all sides of structure so the fill is kept at date JAN 2025 approximately the same elevation at all times. VERIFY SCALE SCALE AS SHOWN 3. The 3 feet closest to all walls or wing faces shall be compacted using pneumatic or hand design N. MAO tampers only. drawn K. CHUNG CHECK N. MAO BAR IS ONE INCH ON SHEET 3 OF 7 1. Request inspection by Engineer prior to backfill. ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST G03 SCALES ACCORDINGLY.

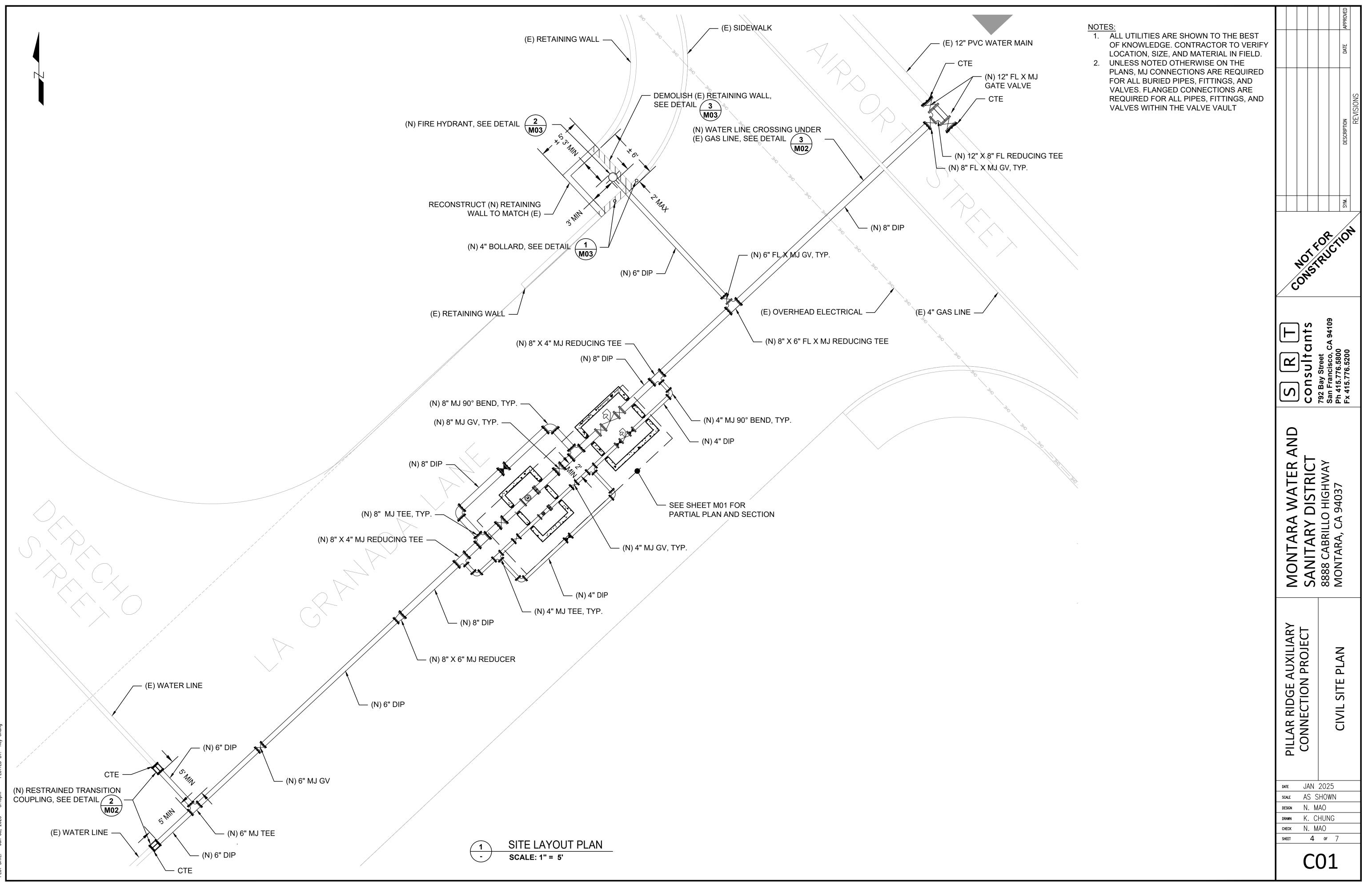
H. Joints

K. Placing Concrete

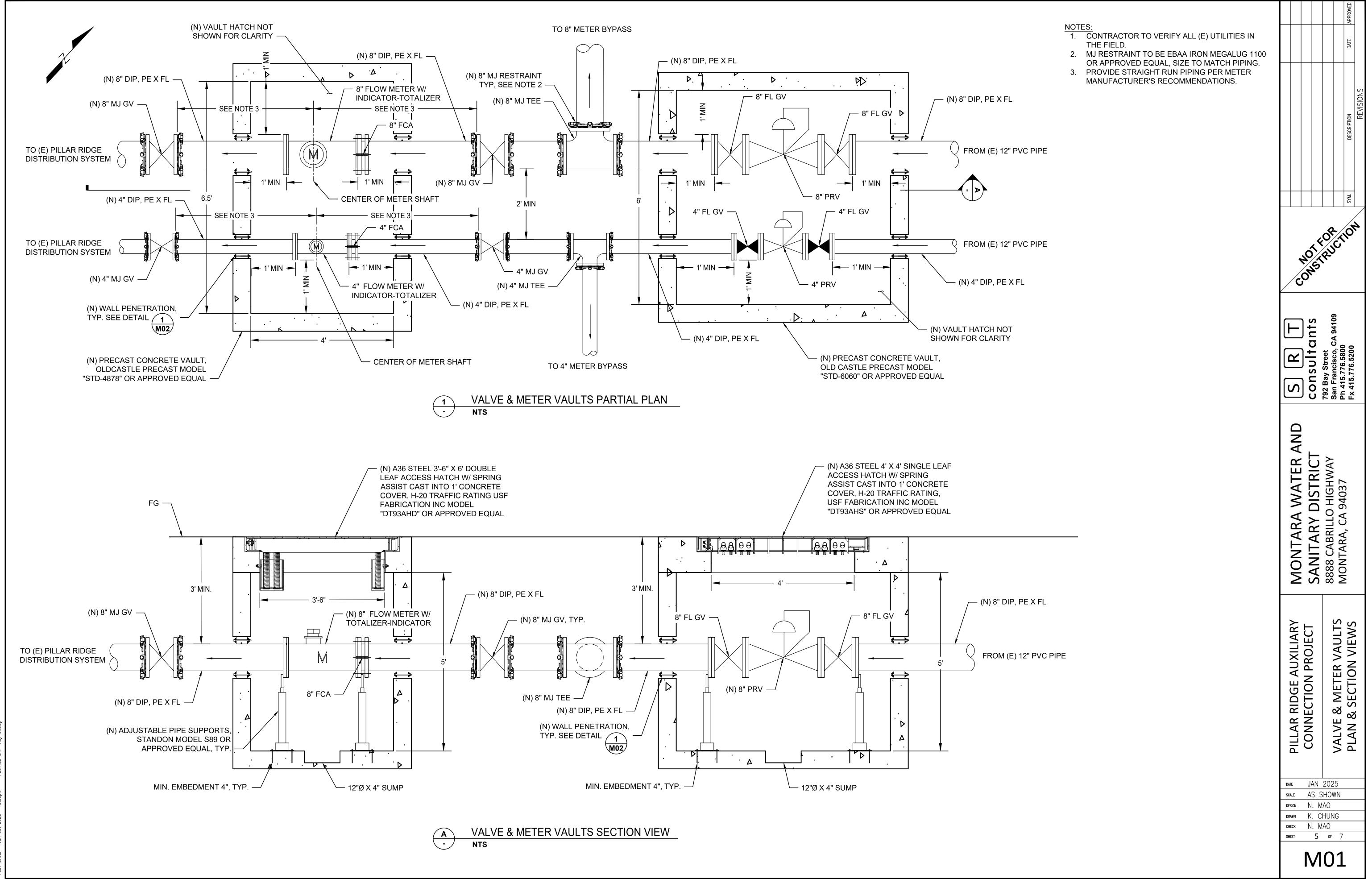
L. Curing

M. Backfill

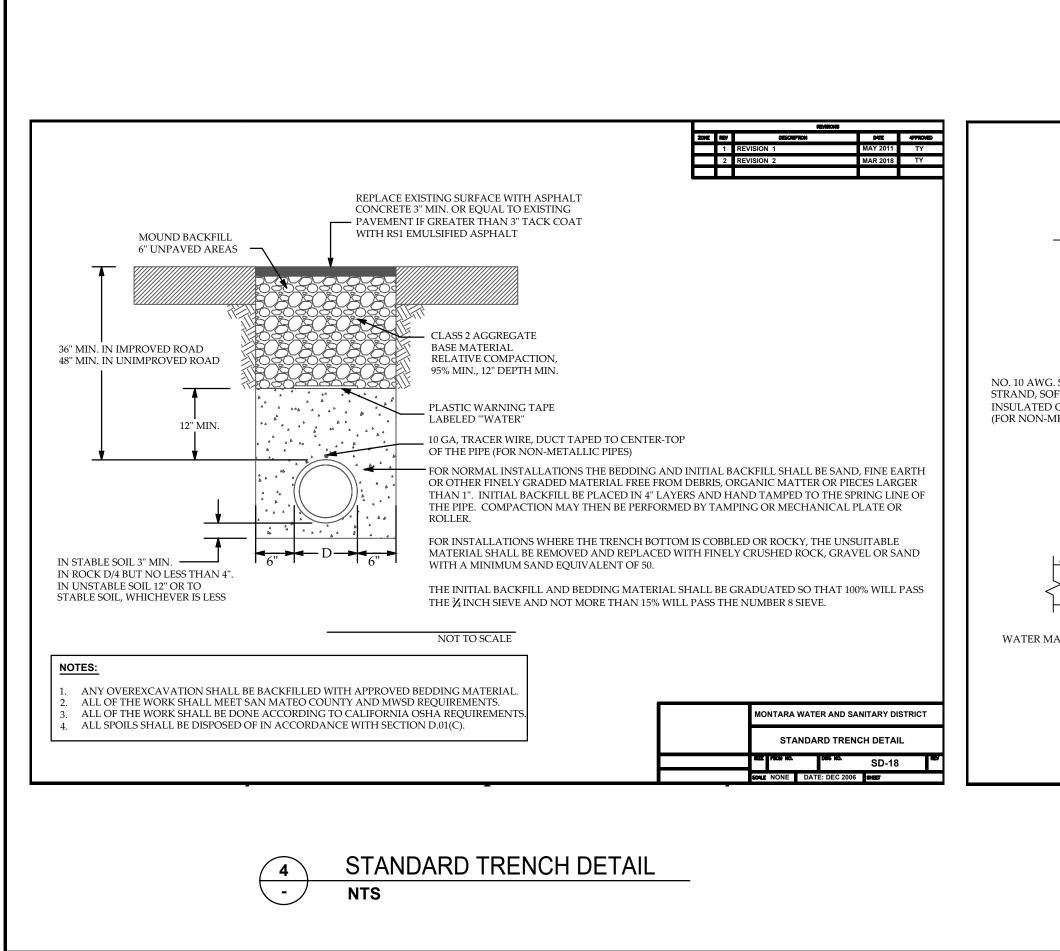
- N. Inspection

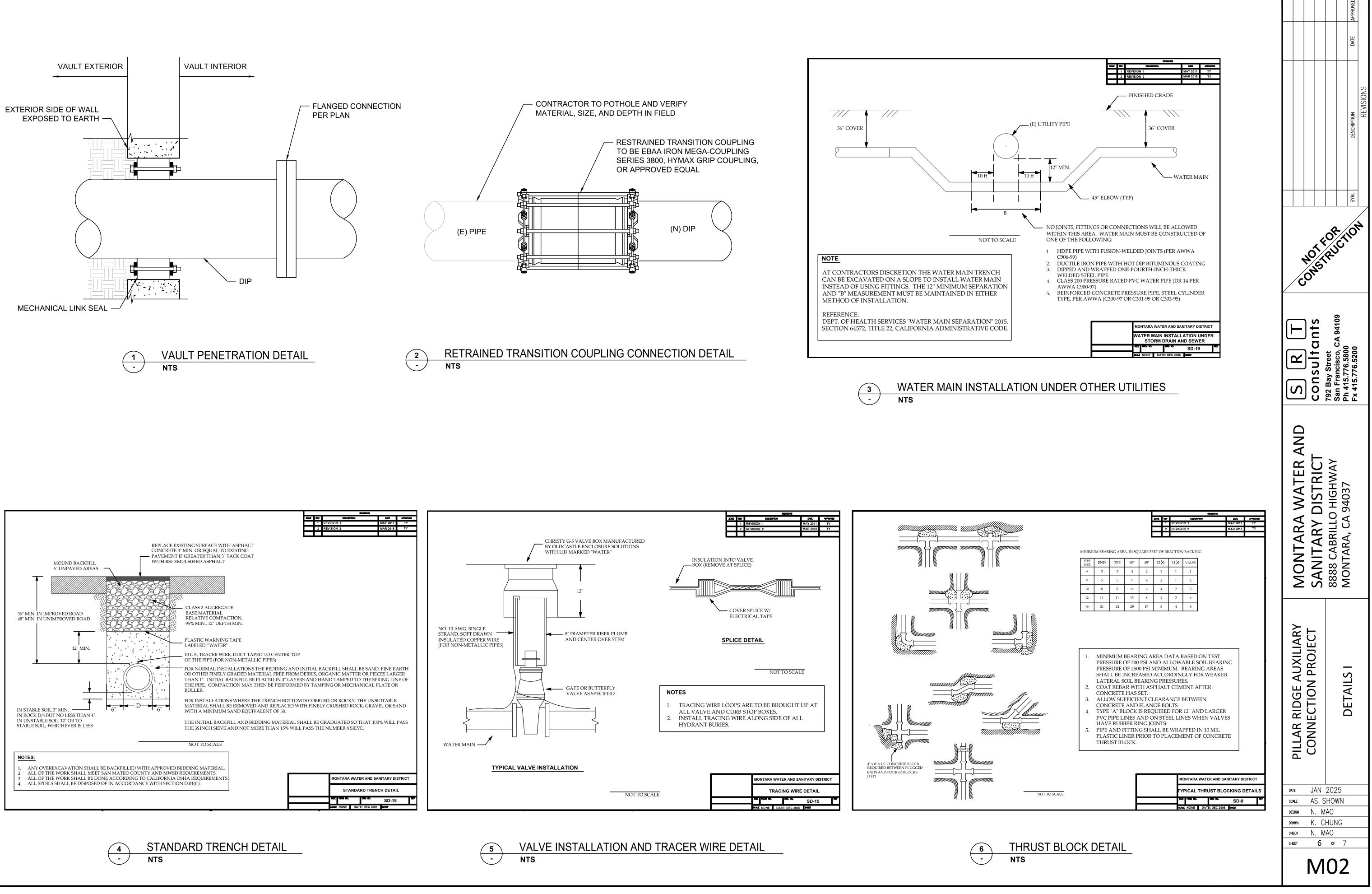


DRAWING NAME: \\newserver\srt\01\_PROJECTS\Montara Water and Sanitary District (1000)\01\_ACTIVE\2024 Pillar Ridge Aux Connection\CAD\SHEETS\C01 CIVIL SITE PLAN.dwg PIOT NATE: Jun 08, 2025 - 5-43cm PIOTTED BY: Key Ching

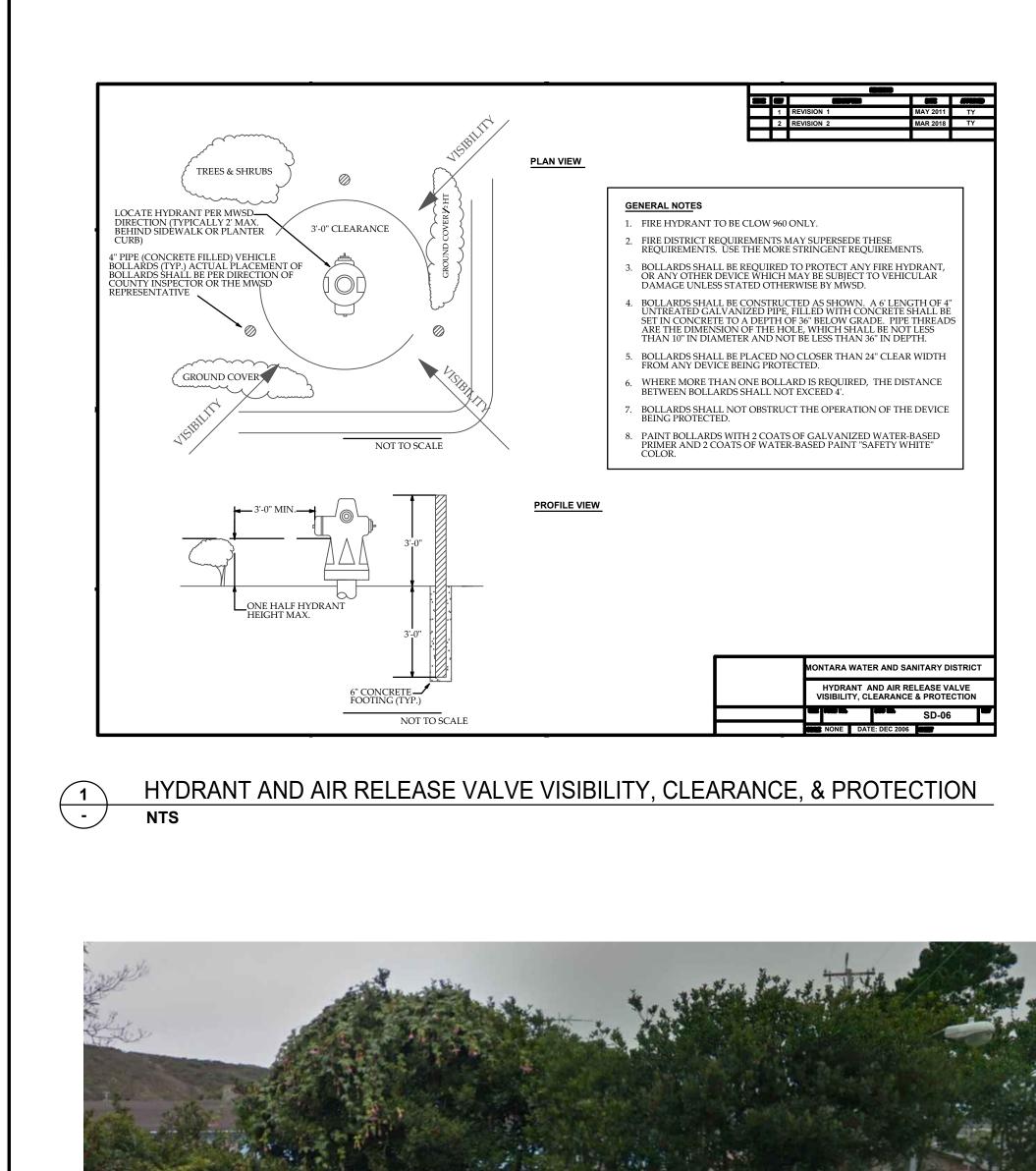








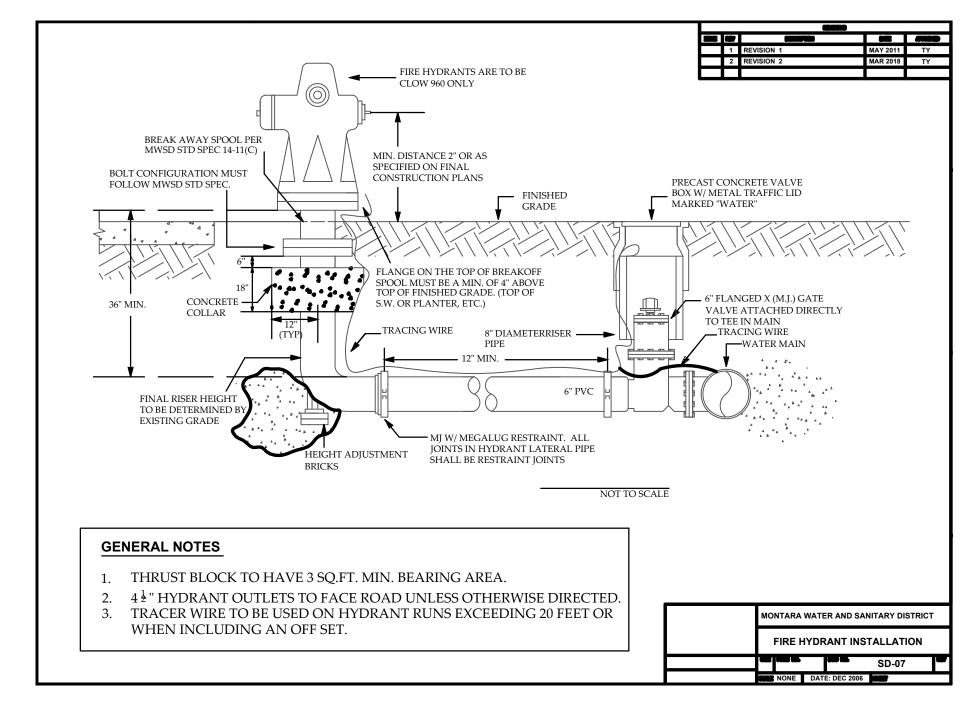
	NOT TO SCALE	
GATE OR BUTTERFLY VALVE AS SPECIFIED	NOTES	
TYPICAL VALVE INSTALLATION	<ol> <li>TRACING WIRE LOOPS ARE TO BE BROUGHT UP AT ALL VALVE AND CURB STOP BOXES.</li> <li>INSTALL TRACING WIRE ALONG SIDE OF ALL HYDRANT BURIES.</li> </ol>	4" x 8" x 16" CONCRETE BLOCK REQUIRED BETWEEN PLUGGED
NOT TO SCA	LE MONTARA WATER AND SANITARY DISTRICT TRACING WIRE DETAIL SZZ FICH NO. SD-15 SZ4E NONE DATE: DEC 2006 SHEET	ENDS AND POURED BLOCKS (TYP)
5 VALVE INSTALLATION AND	TRACER WIRE DETAIL	6





LA GRANADA LANE

RETAINING WALL DEMOLITION NTS



FIRE HYDRANT INSTALLATION 2 NTS \_



- NOTES: 1. THE MATERIAL, STYLE, AND DESIGN OF THE NEW RETAINING WALL SECTION SHALL MATCH THE EXISTING AS CLOSELY AS POSSIBLE.
- 2. CONTRACTOR TO VERIFY THE FOUNDATION DESIGN OF THE EXISTING WALL IN FIELD PRIOR TO DEMOLITION STARTING. THE NEW RETAINING WALL SHALL HAVE THE SAME FOUNDATION DESIGN AS THE EXISTING.

